Evidence and Experience with the Basic Preventive Care Package in Uganda



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February 16, 2006

Outline

- Background
- What is the BCP and its benefits
- Evidence of the components
- Implementation of the Package
- Conclusion

HIV and Africa

In sub-Saharan Africa:

- Despite having the heaviest burden of the HIV/AIDS pandemic,
- Majority of persons with HIV have limited access to good care and treatment
- Current care focuses on access to ARVs and less on prevention interventions

Need standardized preventive measures:

- Developed the "basic preventive care package" (BCP)
- For HIV Infected persons with limited access to HIV-related services

Basic Preventive Care Package

The overall goal is to have all persons with HIV access preventive care through the following strategies:

- Identification of persons with HIV
 - HCT
- Prevention of HIV transmission
 - Sexual partners and unborn children
- Prolonging life and improving quality of persons with HIV
 - Prevention of Ols

What is the Basic Preventive Care Package & its benefits

- Components are simple, standardized, evidence-based prevention & care interventions
- Benefit persons with HIV and their families
- Prevents mortality and Delays disease progression and need for ARVs
- Lays ground work for ARV therapy
- Complements ARV therapy and palliative care

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Components of the Preventive Care Package

Family-based HCT PWP

Interventions for Prevention of OI Cotrimoxazole prophylaxis

Safe water vessel

Insecticide treated mosquito nets

INH prophylaxis

Multivitamins

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Family Based VCT

Identifies beneficiaries for prevention and care interventions

- Discordant couples and children with HIV
- Allows for open household support for
 - challenges of disclosure and behavior change
 - Medication adherence and support

Prevention with Positives Interventions (PWP)



Prevention with positives (PWP): Rationale

- PWP focuses on persons with HIV and families
 - Motivates them to prevent HIV transmission to:
 - Sexual partners and
 - Unborn and breastfeeding children
 - Special counseling needs

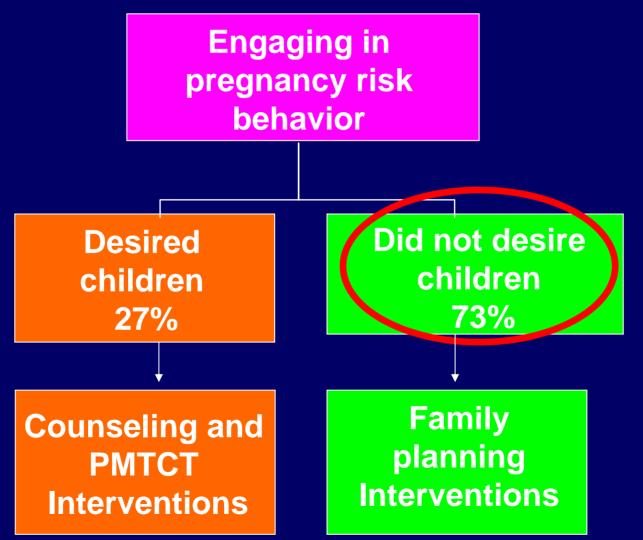
PWP Interventions

- Partners or couples HIV counseling and testing
- Supported disclosure
- Risk reduction measures:
 - Abstinence and safe sex practices (condom use)
 - STI screening and management
 - Family planning
 - PMTCT services

Prevention with Positives (PWP) Formative Evaluation

- Cross-sectional study among 1092 HIVpositive members of AIDS support organization in Jinja
- 64% experienced death of ≥1 biological child
 - Only 7% of women and 27% men desired more children

Pregnancy Risk Behavior in HIV-positive clients



Prevention of Vertical Transmission

 Provision of family planning to people living with HIV is primary prevention for PMTCT

Integration of family planning in AIDS service organizations not universal

 Desire for children increases for those on ART, but unwanted pregnancies still common Prevention of Opportunistic infections: Cotrimoxazole Prophylaxis





Efficacy studies of cotrimoxazole prophylaxis

Country	Morbidity \	Hosp.	Mortality
C d'Ivore (1999)	43%	46%
S. Africa (2001)	48%		44%
Senegal (2001)			16% (NS)
Zambia (2004)		23%	43%
Malawi (2004)			28%
Uganda (2002)	69%		33%
Uganda (2004)	25-72%	31%	46%

Results for Cotrimoxazole prophylaxis evaluation in Uganda

Efficacy

Mortality	46%
Malaria	72%
Diarrhea	35%
Hospitalization	31%
Adverse reactions	2%

Results for Cotrimoxazole prophylaxis evaluation in Uganda

- Reduced rate of decline in CD4 count (90 cells less decline per year) and benefited viral load (0.55 log less increase per year)
- Saved health system \$2.50 per person treated and a gain of 6.57 Disability-Adjusted Life Years (DALYS) per 100 person-years.
- Effective for both children and adults

Benefit of parent taking cotrimoxazole for children

- Having adult with HIV take cotrimoxazole was associated with 63% reduction in death among HIV-negative children <10 years old
- Having a parent die tripled the risk HIV-negative child would die
- Prophylaxis not associated with increased antimicrobial resistance among diarrhea pathogens infecting family members





Diarrhea and safe water system

- People with HIV in Africa have 6 times rate of diarrhea than HIV-negatives
- Safe Water system involves chlorination and storage of water in home
- RCT among 509 persons with HIV
 - 25% fewer diarrhea episodes and less dysentery
 - Benefits HIV-negative family members
- Cost \$4 per year per family

Safe Water System (SWS)

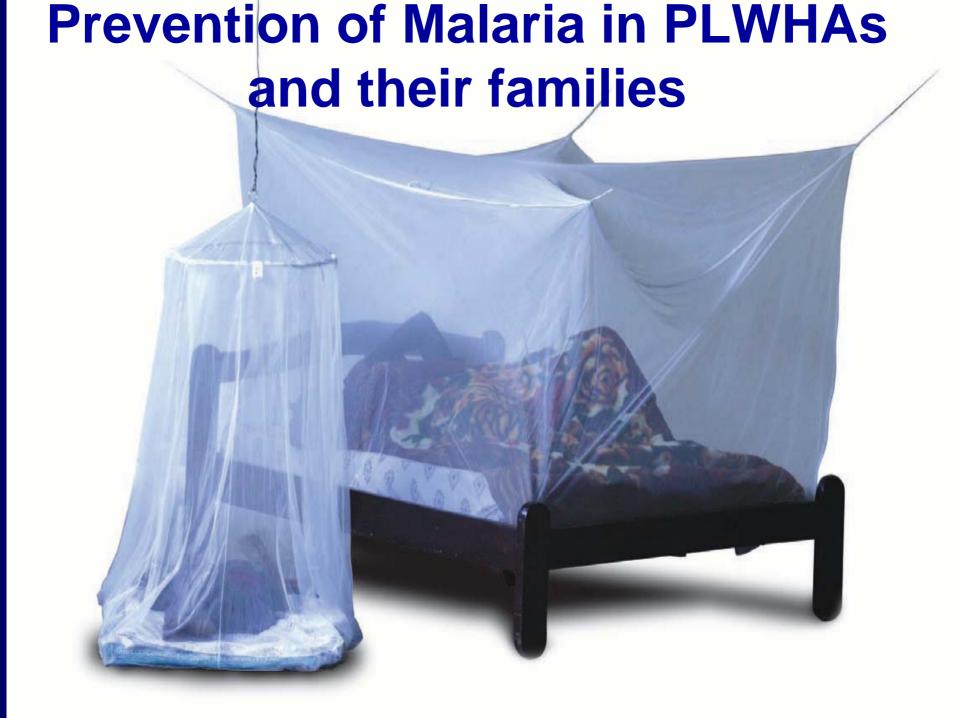
- Water Treatment
 - •Filtration with cloth
 - Disinfection with chlorine

- Safe storage of water
 - •20-liter water vessel
 - Maintains disinfection
 - Prevents recontamination





- Behavior change
 - Hand washing
 - •Improved sanitation 21



HIV and Malaria

- High burden of disease:
 - HIV/AIDS: Globally 40M people infected (UNAIDS)
 - Malaria: 300-500 million clinical episodes annually (WHO)
- Majority of HIV and malaria cases occur in sub-Saharan
 Africa
- HIV increases incidence and severity of malaria
- Malaria increases viral load by 0.25 log and this increases risk of MTCT in pregnant women
- Causes a CD4 cell decline 40 cells/year

Behavior Change communication for the BCP

- Behavior change communication messages about the BCP through:
 - Client education materials
 - Radio spots and T.V shows
 - Drama skits
 - Training of the health workers, counselors and peer educators on use of the package

Program Scale-up BCP Package

- >100, 000 people with HIV receiving cotrimoxazole prophylaxis
- The Door to door program provides basic care package for >4600 newly diagnosed HIV-infected persons including HIVdiscordant couples (ITNs, SWS, PWP/Condoms)
- By January 2006, ~30,000 people with HIV have receive basic prevention and care package

Program Scale-up BCP Package

- New MOH policies
 - Cotrimoxazole prophylaxis
 - Counselling and Testing
- INH prophylaxis and multi-vitamins
- National communication campaign; includes PWP
- 200,000 people receiving basic care package by 2007

Conclusion

- Persons with HIV/AIDS in Africa
 - should receive effective, evidence-based health care tailored to meet the specific needs of the region including
 - a broad package of care and prevention services
 - ARV medications
- Provision of BCP is Feasible & an important step towards
 - reducing health care disparities
 - gaining more control of the global HIV/AIDS epidemic